Provisioning Information

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North Ridge Digital Cable
305 W Stephenson Ave, Harrison, AR 72601

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Provisioning Information

Provisioning an IntelliStar 1 is controlled by a series of sh Shell Scripts. In order to begin Provisioning an IntelliStar 1, you need to run prov_enable.
This sets the following flags in /boot/loader.conf:
no_render="YES"
provision="YES"
This disables renderD from starting and flags the system to begin provisioning on next boot.
On the next boot, the main provision script runs automatically. It calls the following scripts/commands in this order:
prov_config:
Prompts the operator to enter a Headend ID. Valid formats are a 6-digit number (e.g. 022737) or an E-prefixed experience ID (e.g. E42). It then fetches the appropriate config.py (and clocks.tar for Weatherscan units) from the SCMT server and loads it into the datastore.
cli startdata:
Starts datad and associated data services.
prov_fetchmedia:
Fetches and installs media packs from starhost. It downloads a MANIFEST file from both the twc/ and personality-specific directories, then fetches and installs each listed pack.
dsset productionMachine:
Marks the unit as a production machine in the datastore. Then runs the personality report script (e.g. domestic_rpt.py) to phone home to SCMT.
prov_netconf:
Writes permanent network configuration to /etc/rc.conf based on values loaded from the SCMT config. Configures the frontchannel (IRD/fxp0)

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and backchannel (ethernet or dialup PPP). Also updates /etc/motd with the headend ID and personality.

cli stop:
Stops datad and associated data services.

prov_disable:
Removes the provision and no_render flags from /boot/loader.conf so the system boots into rendering mode on next restart.

prov_clean:
Removes any leftover tag files from previous config or burn-in cycles.

Supporting Scripts

prov_netstart:
Sets up provisional networking before any FTP fetches can happen. Runs DHCP on fxp0 to get a temporary IP address. Called automatically by test_network if the network is not yet configured.

prov_flashtsc:
Flashes ThunderStorm Firmware. Run this before the main provision script if the TSC requires a firmware update.

prov_fetchmaps:
Fetches and installs FreeBSD packages from bigpimp that are not installed during the CD install. Downloads the release package for the unit's personality, resolves its dependency chain from the +CONTENTS file, and installs all packages via pkg_add.

prov_dialguess:
Trial-and-error utility that attempts to find a working dial prefix for the ISP dialup number. Tries variations with and without area code, with and without a 9, prefix, and a fallback 1-888 number. Saves the working number to the datastore and uploads it to the starlog server.

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backchannel_up / backchannel_down:
Bring the backchannel connection up or down. For dialup, pings the PPP gateway. For ethernet, checks that the interface is configured. backchannel_down sends an INT signal to ppp to hang up.
callhome
Brings up the backchannel and SFTPs a file containing the unit's IP address to the starlog server at /logs/callhome/<headendId>.ip.

Network Interfaces

fxp0: Frontchannel. Receives satellite data from the IRD. Also used for provisional DHCP during provisioning.

fxp1 or sis0: Backchannel ethernet. Checked in order of fxp1, then sis0

tun0: PPP dialup backchannel.

/dev/modem: Serial modem for dialup. WinModems (cual0) are detected and rejected.

Remote Servers (user/pass)
scmt.twc.weather.com:
FTP (scmt/scmt) SCMT config delivery and report upload.
starhost1.atl.weather.com:
FTP (xlftp/wombat69) Media pack delivery.
bigpimp.atl.weather.com:
FTP (anonymous) FreeBSD package delivery.
65.212.71.50:
SFTP (RSA key) Starlog callhome and phone number logging.

This concludes the provisioning documentation.

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